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PTO/SB/05 (11-00)  
Approved for use through 10/31/2002. OMB 0651-0032  
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|  |   |                                   |
|--|---|-----------------------------------|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br>(Only for new nonprovisional applications under 37 CFR 1.53(b)) | <b>Attorney Docket No.</b> 8729-222 (SS-18970-US) |                                   |
|  | <b>First Inventor</b> Tae-gyoung KANG             |                                   |
|  | <b>Title</b>                                      | CONTENT ADDRESSABLE MEMORY DEVICE |
|  | <b>Express Mail Label No.</b> EV 329488150US      |                                   |

|   |   |
|---|---|
| <b>APPLICATION ELEMENTS</b><br><br>See MPEP chapter 600 concerning utility patent application contents. | <b>ADDRESS TO:</b> Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231 |
|---|---|

|  |   |
|--|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/>(Submit an original and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <input type="text" value="30"/> ]<br/>(preferred arrangement set forth below)</p> <ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross Reference to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [ Total Sheets <input type="text" value="7"/> ]</p> <p>5. Oath or Declaration [ Total Pages <input type="text" value="2"/> ]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d))<br/>(for continuation/divisional with Box 18 completed)</p> <p>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
|--|---|

|  |   |
|--|---|
| <b>ACCOMPANYING APPLICATION PARTS</b>  |   |
| 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))   |   |
| 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee)  | <input checked="" type="checkbox"/> Power of Attorney       |
| 11. <input type="checkbox"/> English Translation Document (if applicable)  |   |
| 12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449  | <input checked="" type="checkbox"/> Copies of IDS Citations |
| 13. <input type="checkbox"/> Preliminary Amendment   |   |
| 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)                                     |   |
| 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)   |   |
| 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. |   |
| 17. <input checked="" type="checkbox"/> Other: Credit Card Payment Forms(2)  |   |


18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Prior application information: Examiner: \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

|   |             |   |                |                 |                |
|---|-------------|---|----------------|-----------------|----------------|
| <b>19. CORRESPONDENCE ADDRESS</b>   |             |   |                |                 |                |
| <input type="checkbox"/> Customer Number or Bar Code Label  |             | <input type="checkbox"/> Correspondence address below |                |                 |                |
| <div style="border: 1px solid black; padding: 2px;">(Insert Customer No. or Attach bar code label here)</div> |             |   |                |                 |                |
| <b>Name</b>   |             |   |                |                 |                |
| F. CHAU & ASSOCIATES, LLP   |             |   |                |                 |                |
| <b>Address</b>  |             |   |                |                 |                |
| 1900 Hempstead Turnpike, Suite 501  |             |   |                |                 |                |
| <b>City</b>   | East Meadow | <b>State</b>  | New York       | <b>Zip Code</b> | 11554          |
| <b>Country</b>  | U.S.A       | <b>Telephone</b>                                      | (516) 357-0091 | <b>Fax</b>      | (516) 357-0092 |

|                          |   |  |         |
|--------------------------|---|--|---------|
| <b>Name (Print/Type)</b> | Frank Chau  | <b>Registration No. (Attorney/Agent)</b> | 34,136  |
| <b>Signature</b>         |  | <b>Date</b>                              | 8/20/03 |

22389 U.S. PTO  
10/644145  
08/20/03

17712 U.S. PTO  
08/20/03

PTO/SB/17 (01-03)  
Approved for use through 04/30/2003. OMB 0651-0032  
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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 1,108.00

## Complete if Known

|                      |                        |
|----------------------|------------------------|
| Application Number   |                        |
| Filing Date          | August 20, 2003        |
| First Named Inventor | Tae-young KANG         |
| Examiner Name        |                        |
| Art Unit             |                        |
| Attorney Docket No.  | 8729-222 (SS-18970-US) |

## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number  
Deposit Account Name

50-0679

F. Chau & Associates, LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid   |
|--------------|----------|--------------|----------|------------------------|------------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |            |
| 1001         | 750      | 2001         | 375      | Utility filing fee     | \$750.00   |
| 1002         | 330      | 2002         | 165      | Design filing fee      |            |
| 1003         | 520      | 2003         | 260      | Plant filing fee       |            |
| 1004         | 750      | 2004         | 375      | Reissue filing fee     |            |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |            |
| SUBTOTAL (1) |          |              |          |                        | (\$ 750.00 |

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 33                 | 20** = 13    | 18             | 234      |
| Independent Claims | 4            | 3** = 1        | 84       |
| Multiple Dependent |              | 280            |          |

| Large Entity |          | Small Entity |          | Fee Description  |
|--------------|----------|--------------|----------|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                     |
| 1201         | 84       | 2201         | 42       | Independent claims in excess of 3                          |
| 1203         | 280      | 2203         | 140      | Multiple dependent claim, if not paid                      |
| 1204         | 84       | 2204         | 42       | ** Reissue independent claims over original patent         |
| 1205         | 18       | 2205         | 9        | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 318.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

| Large Entity |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 1051         | 130      | 2051         | 65       | Surcharge - late filing fee or oath  |          |
| 1052         | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053         | 130      | 1053         | 130      | Non-English specification  |          |
| 1812         | 2,520    | 1812         | 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804         | 920*     | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805         | 1,840*   | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251         | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252         | 410      | 2252         | 205      | Extension for reply within second month                                    |          |
| 1253         | 930      | 2253         | 465      | Extension for reply within third month                                     |          |
| 1254         | 1,450    | 2254         | 725      | Extension for reply within fourth month                                    |          |
| 1255         | 1,970    | 2255         | 985      | Extension for reply within fifth month                                     |          |
| 1401         | 320      | 2401         | 160      | Notice of Appeal   |          |
| 1402         | 320      | 2402         | 160      | Filing a brief in support of an appeal                                     |          |
| 1403         | 280      | 2403         | 140      | Request for oral hearing   |          |
| 1451         | 1,510    | 1451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452         | 110      | 2452         | 55       | Petition to revive - unavoidable   |          |
| 1453         | 1,300    | 2453         | 650      | Petition to revive - unintentional   |          |
| 1501         | 1,300    | 2501         | 650      | Utility issue fee (or reissue)   |          |
| 1502         | 470      | 2502         | 235      | Design issue fee   |          |
| 1503         | 630      | 2503         | 315      | Plant issue fee  |          |
| 1460         | 130      | 1460         | 130      | Petitions to the Commissioner  |          |
| 1807         | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806         | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021         | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) | 40.00    |
| 1809         | 750      | 2809         | 375      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810         | 750      | 2810         | 375      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801         | 750      | 2801         | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802         | 900      | 1802         | 900      | Request for expedited examination of a design application                  |          |


Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00

## SUBMITTED BY

(Complete if applicable)

|                   |   |                                   |         |           |                |
|-------------------|---|-----------------------------------|---------|-----------|----------------|
| Name (Print/Type) | Frank Chau  | Registration No. (Attorney/Agent) | 34,136  | Telephone | (516) 357-0091 |
| Signature         |  | Date                              | 8/20/03 |           |                |

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Atty. Docket No. 8729-222(SS-18970-US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

UTILITY APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Tae-gyoung KANG, Uk-Rae CHO

For: CONTENT ADDRESSABLE MEMORY DEVICE

Enclosed are:

[X] 20 page(s) of specification

[X] 1 page(s) of Abstract

[X] 9 page(s) of claims

[X] 7 sheets of drawings [ ] formal [X] informal

[X] 2 page(s) of Declaration and Power of Attorney

[X] An Assignment of the invention to:

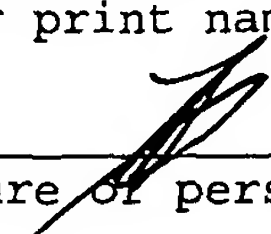
Samsung Electronics Co., Ltd.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date August 20, 2003 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV329488150US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Frank Chau

(Type or print name of person mailing paper)

  
(Signature of person mailing paper)

[ ] This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s) .:

APPLICATION NO(S) .:

FILING DATE

\_\_\_\_/\_\_\_\_

\_\_\_\_\_

\_\_\_\_/\_\_\_\_

\_\_\_\_\_

[ ] Certified copy of applications

Country

Appln. No.

Filed

Korea

2003-26427

April 25, 2003

from which priority under Title 35 United States Code, § 119 is claimed

[ ] is enclosed.

[X] will follow.

CALCULATION OF UTILITY APPLICATION FEE


| For         | Number<br>Filed | Number<br>Extra | Rate       | Basic Fee         |
|-------------|-----------------|-----------------|------------|-------------------|
| Total       |                 |                 |            | \$750.00          |
| Claims*     | 33 -20 =        | 13              | x \$ 18.00 | \$234.00          |
| Independent |                 |                 |            |                   |
| Claims      | 4 -3 =          | 1               | x \$ 84.00 | \$ 84.00          |
| Multiple    | [ ] yes         | Add'l. Fee      | \$280.00   | \$                |
| Dependent   |                 |                 |            |                   |
| Claims      | [ ] no          | Add'l. Fee      | None       | = \$              |
| TOTAL       |                 |                 |            | <u>\$1,068.00</u> |

[ ] Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$\_\_\_\_\_.

\*Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

- [X] A Credit Card Payment Form PTO-2038 in the amount of \$40.00 is enclosed for recording the attached Assignment.
- [X] A Credit Card Payment Form PTO-2038 in the amount of \$1,068.00 to cover the filing fee is attached.
- [ ] Charge fee to Deposit Account No. 50-0679. Order No. 50-0679. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: 8/20/03

  
\_\_\_\_\_  
SIGNATURE OF ATTORNEY  
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FC:pg